

10/772,170

STM - STRUCTURE SEARCH
10.20.04

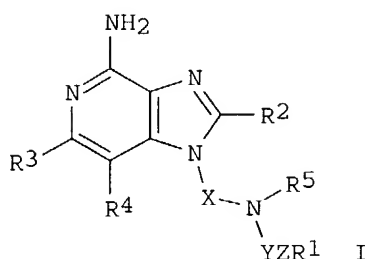
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L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STM
 ACCESSION NUMBER: 2003:276738 CAPLUS
 DOCUMENT NUMBER: 138:287671
 TITLE: Preparation of aminoimidazopyridinylalkyl(thio)ureas
 as cytokine biosynthesis inducers.
 INVENTOR(S): Dellaria, Joseph F.; Haraldson, Chad A.; Heppner,
 Philip D.; Lindstrom, Kyle J.; Merrill, Bryon A.
 PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
 SOURCE: U.S., 40 pp., Cont.-in-part of U.S. Ser. No. 16,073.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 4
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6545017	B1	20030408	US 2002-165453	20020607
US 2002107262	A1	20020808	US 2001-16073	20011206
WO 2003050117	A1	20030619	WO 2002-US18220	20020607
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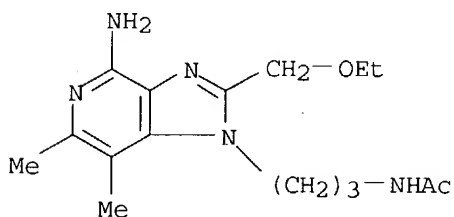
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 WO 2002-US18284 W 20020607
 US 2003-358017 A1 20030204
 OTHER SOURCE(S): MARPAT 138:287671
 GI



AB Title compds. [I; X = alkylene, alkenylene; Y = CO, CS; Z = NR6, NR6CO, NR6SO2, NR7; R1 = (substituted) aryl, heteroaryl, heterocyclyl, alkyl, alkenyl; R2 = H, (substituted) alkyl, alkenyl, aryl, heteroaryl, etc.; R3, R4 = H, alkyl, alkenyl, halo, alkoxy, amino, alkylthio; R5, R6 = H, alkyl; XR5, R1R7 = atoms to form a ring; R7 = H, (heteroatom-interrupted) alkyl], were prepared Thus, PhNCO was added to 1-(4-aminobutyl)-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-4-amine in CH2Cl2 under ice cooling followed by stirring for 30 min. to give N-[4-[4-amino-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]butyl]-N'-phenylurea. The latter induced interferon and tumor necrosis factor synthesis in human peripheral blood mononuclear cells with least effective concns. of 0.12 and 0.37 μ M, resp.

IT 499127-22-9P 499127-33-2P 507225-52-7P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of aminoimidazopyridinylalkyl(thio)ureas as cytokine biosynthesis inducers)

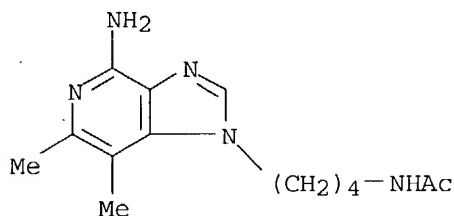
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 CN Acetamide, N-[3-[4-amino-2-(ethoxymethyl)-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl]propyl]- (9CI) (CA INDEX NAME)



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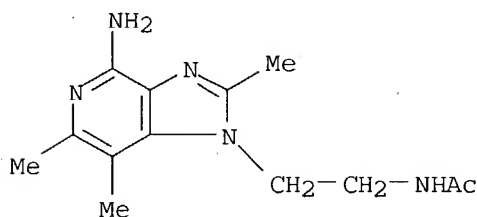
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RN 507225-52-7 CAPLUS

CN Acetamide, N-[2-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)ethyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:276737 CAPLUS

DOCUMENT NUMBER: 138:304283

TITLE: Preparation of aminoimidazopyridinylalkylamides as
inducers of cytokine biosynthesis.

INVENTOR(S): Dellaria, Joseph F.; Haraldson, Chad A.; Heppner,
Philip D.; Lindstrom, Kyle J.; Merrill, Bryon A.

PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA

SOURCE: U.S., 37 pp., Cont.-in-part of U.S. Ser. No. 16,073,
abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

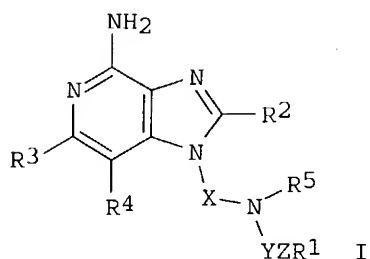
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6545016	B1	20030408	US 2002-165229	20020607
US 2002107262	A1	20020808	US 2001-16073	20011206
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 US 2003162806 A1 20030828 US 2003-357995 20030204
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 WO 2002-US18220 W 20020607
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 US 2003-357995 A1 20030204

OTHER SOURCE(S): MARPAT 138:304283
 GI



AB Title compds. [I; X = alkylene, alkenylene; Y = CO, CS; Z = bond, O, S; R1 = (substituted) aryl, heteroaryl, heterocyclyl; R2 = H, alkoxyalkyl, aryloxyalkyl, (substituted) aryl, heteroaryl, alkyl, alkenyl, etc.; R3, R4 = H, alkyl, alkenyl, halo, alkoxy, amino, alkylthio; R5 = H, alkyl; R5X, R1R5 = atoms to form a ring], were prepared. Thus, Et3N and 1-(4-aminobutyl)-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-4-amine (preparation given) in CH2Cl2 were treated with methanesulfonic anhydride under ice cooling followed by stirring for 35 min. to give N-[4-(4-amino-2-butyl-6,7-dimethyl-1H-imidazo[4,5-c]pyridin-1-yl)butyl]methanesulfonamide. The latter induced interferon and tumor necrosis factor production in human peripheral blood mononuclear cells at lowest effective concns. of 0.0046 and 0.01 μ M, resp.

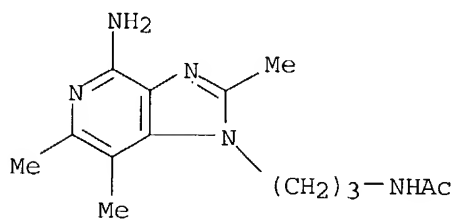
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RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(claimed compound; preparation of aminoimidazopyridinylalkylamides as inducers of cytokine biosynthesis)

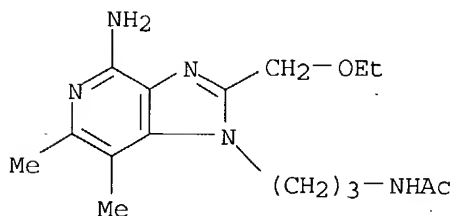
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RN 499127-22-9 CAPLUS

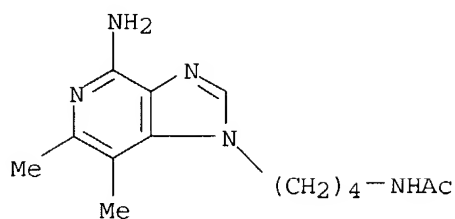
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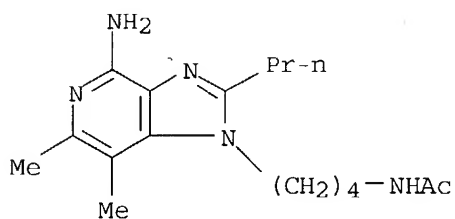
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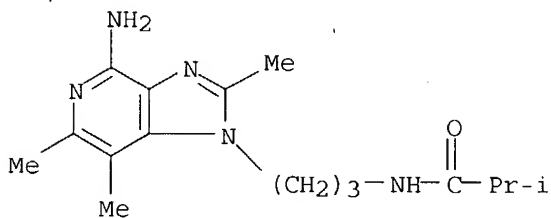
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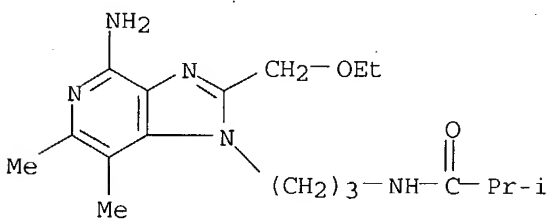
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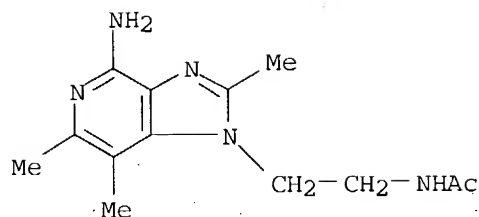
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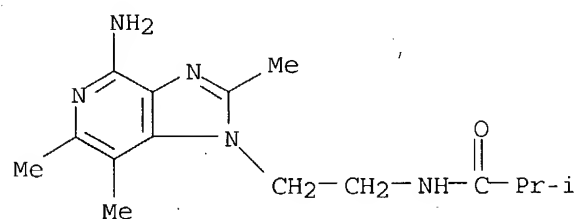
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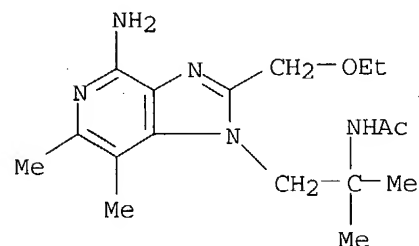
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RN 507225-54-9 CAPLUS

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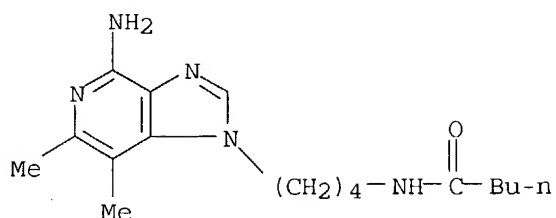
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aminoimidazopyridinylalkylamides as inducers of cytokine biosynthesis)

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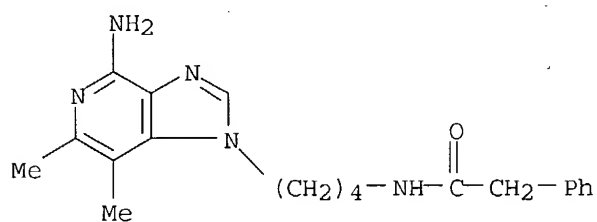
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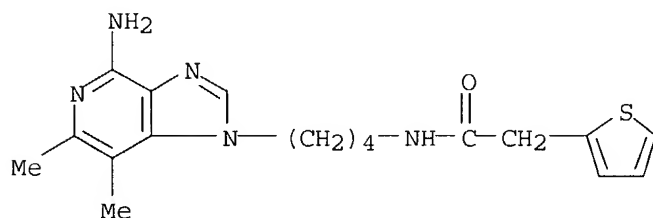
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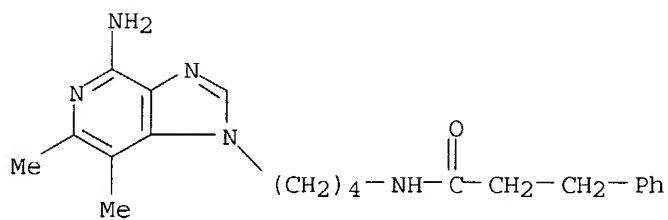
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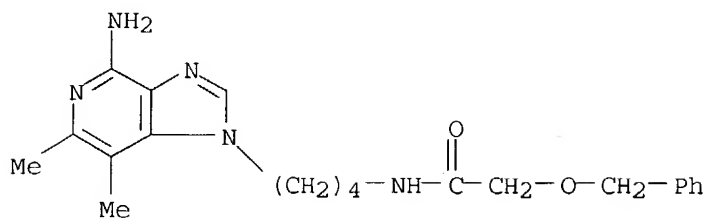
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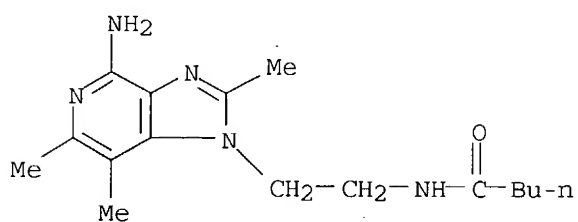
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10/772,170



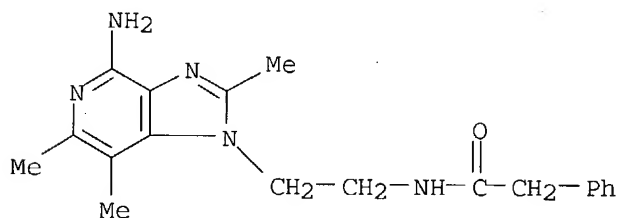
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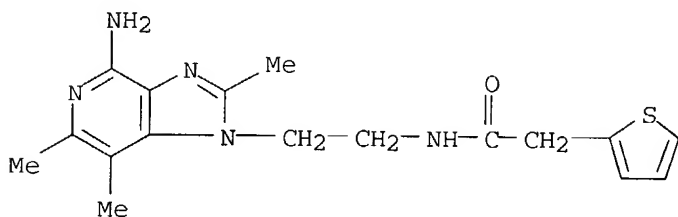
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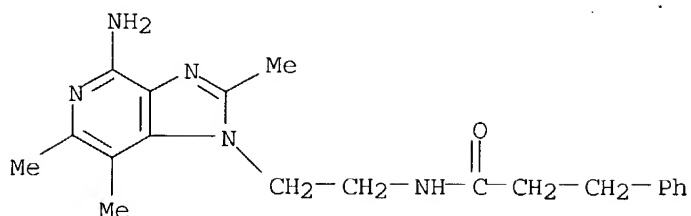
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RN 507226-25-7 CAPLUS

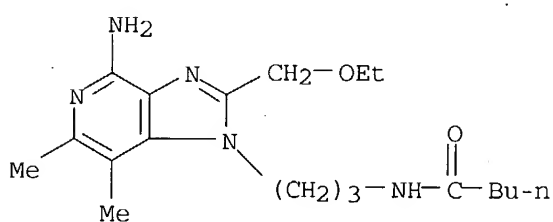
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10/772,170



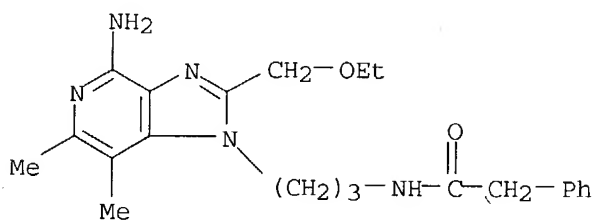
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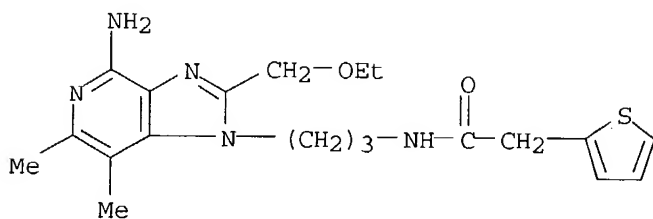
RN 507226-51-9 CAPLUS

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RN 507226-55-3 CAPLUS

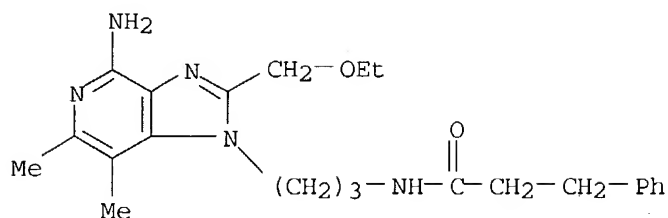
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RN 507226-61-1 CAPLUS

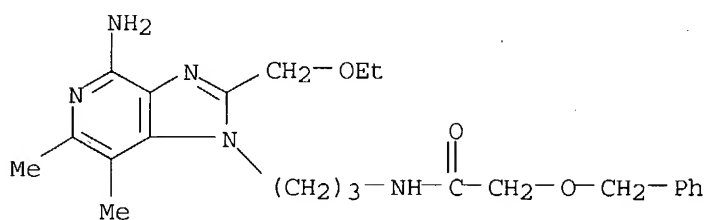
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10/772,170



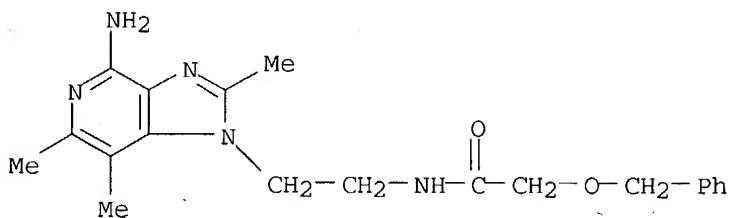
RN 507226-69-9 CAPLUS

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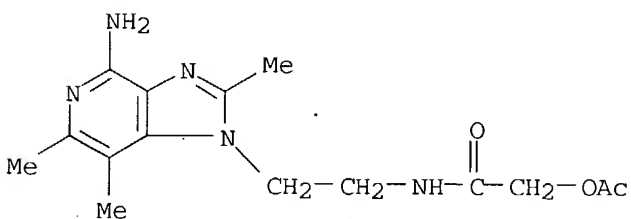
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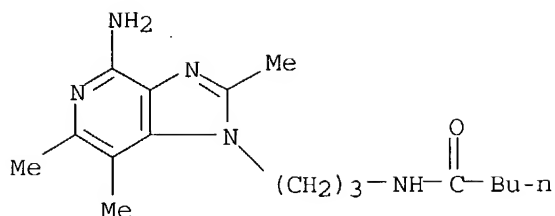
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RN 507228-75-3 CAPLUS

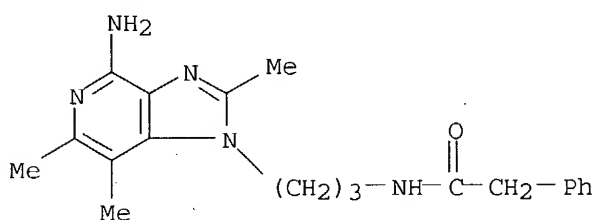
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10/772,170



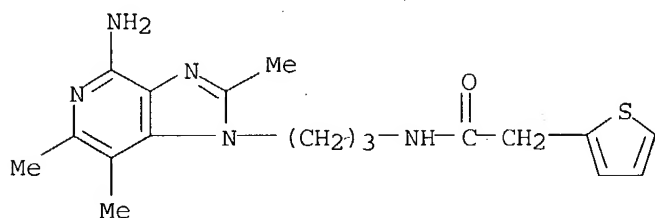
RN 507228-78-6 CAPLUS

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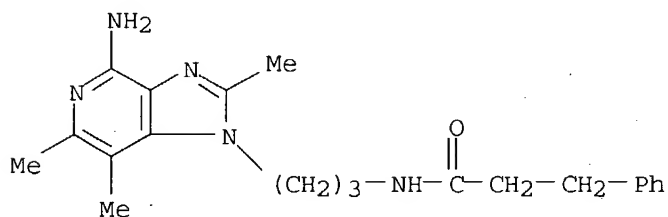
RN 507228-82-2 CAPLUS

CN 2-Thiopheneacetamide, N-[3-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)propyl]- (9CI) (CA INDEX NAME)



RN 507228-87-7 CAPLUS

CN Benzenepropanamide, N-[3-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)propyl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:150533 CAPLUS

DOCUMENT NUMBER: 138:187770

10/772,170

TITLE: Preparation of sulfonamido/benzamido-alkyl substituted
imidazopyridines as immune response modifiers
INVENTOR(S): Dellaria, Joseph F.; Haraldson, Chad A.; Heppner,
Philip D.; Lindstrom, Kyle J.; Merrill, Bryon A.
PATENT ASSIGNEE(S): 3M Innovative Properties Company, USA
SOURCE: U.S., 35 pp., Cont.-in-part of U.S. Ser. No. 16,073,
abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6525064	B1	20030225	US 2002-165002	20020607
US 2002107262	A1	20020808	US 2001-16073	20011206
WO 2003050117	A1	20030619	WO 2002-US18220	20020607
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG				
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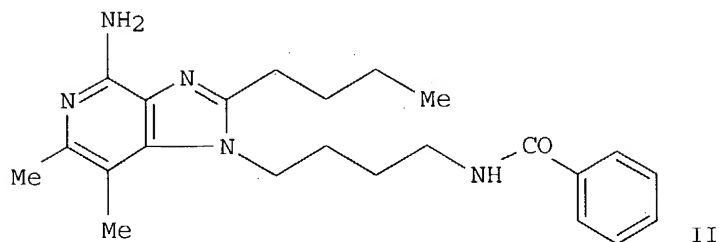
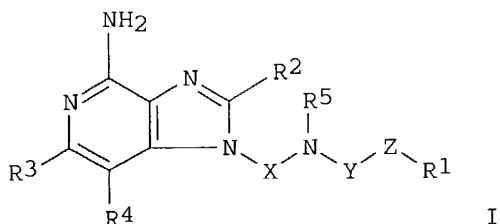
10/772,170

US 6696465
US 2004147533
PRIORITY APPLN. INFO.:

B2 20040224
A1 20040729

US 2004-754056 20040107
US 2000-254228P P 20001208
US 2001-16073 B2 20011206
US 2002-165002 A1 20020607
WO 2002-US18220 W 20020607
WO 2002-US18282 W 20020607
WO 2002-US18284 W 20020607
US 2002-322262 A1 20021217

OTHER SOURCE(S): MARPAT 138:187770
GI



AB Title compds. I [X = alk(en)ylene; Y = SO₂; Z = bond, amino; R₁ = aryl, heteroaryl, alkyl, heterocyclyl, etc.; R₂ = H, alkyl, alkenyl, aryl, etc.; R₃₋₄ = H, alkyl, alkenyl, halo, alkoxy, etc.; R₅ = H, alkyl, etc.] are prepared For instance, 4-hydroxy-5,6-dimethyl-3-nitro-2(1H)-pyridone was reacted with triflic anhydride and mono-boc-1,4-butanediamine to give 4-[[4-[(tert-butoxycarbonyl)amino]butyl]amino]-5,6-dimethyl-3-nitropyridin-2-yl trifluoromethanesulfonate. This intermediate was reacted with dibenzylamine (PhMe, Et₃N), reduced to the amino derivative (MeOH, NaBH₄, NiCl₂), acylated/cyclized (CH₃CN, valeryl chloride, Et₃N), deprotected (CH₂Cl₂, triflic acid) and acylated (CH₂Cl₂, PhCOCl) to give II. II caused interferon induction at 0.12 μM and TNF induction at 1.11 μM. I can induce the biosynthesis of various cytokines and are useful in the treatment of a variety of conditions including viral diseases and neoplastic diseases.

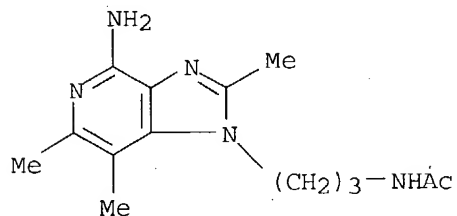
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RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

10/772,170

(preparation of sulfonamido/benzamido-alkyl substituted imidazopyridines as immune response modifiers)

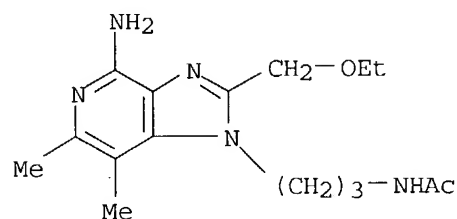
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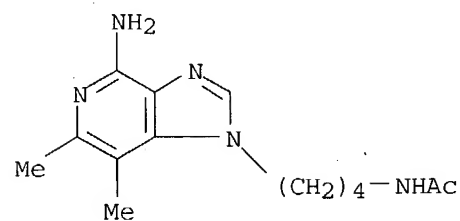
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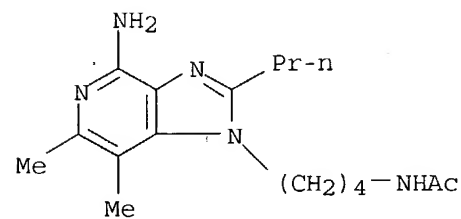
RN 499127-33-2 CAPLUS

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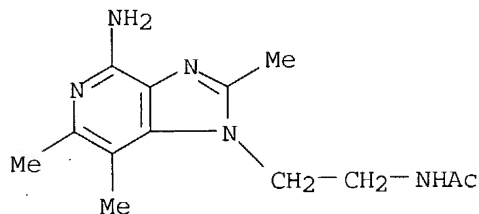
RN 499127-82-1 CAPLUS

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10/772,170

RN 499128-17-5 CAPLUS
CN Acetamide, N-[2-(4-amino-2,6,7-trimethyl-1H-imidazo[4,5-c]pyridin-1-yl)ethyl]-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

REFERENCE COUNT: 59 THERE ARE 59 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 09:24:38 ON 20 OCT 2004)

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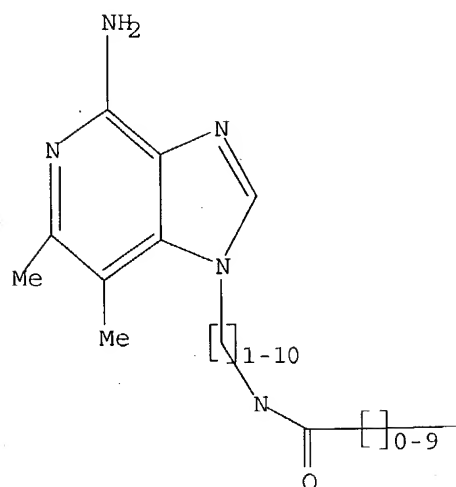
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L1 HAS NO ANSWERS
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10/772,170



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G3 H,Ak

G4 Cy,Ak

Structure attributes must be viewed using STN Express-query preparation.

=>

Day : Wednesday
Date: 10/20/2004
Time: 09:13:36

PALM INTRANET

Inventor Name Search Result

Your Search was:

Last Name = HEPPNER

First Name = PHILIP

Application#	Patent#	Status	Date Filed	Title	Inventor Name 42
<u>60603303</u>	Not Issued	020	08/20/2004	PYRAZOLOPYRIDINES AND ANALOGS THEREOF	HEPPNER, PHILIP D.
<u>60581317</u>	Not Issued	020	06/18/2004	ARYL SUBSTITUTED IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
<u>60581316</u>	Not Issued	020	06/18/2004	SUBSTITUTED THIAZOLOPYRIDINES, THIAZOLOQUINOLINES AND THIAZOLONAPHTHYRIDINES	HEPPNER, PHILIP D.
<u>60581297</u>	Not Issued	020	06/18/2004	ARYLOXY AND ARYLALKYLENEOXY SUBSTITUTED THIAZOLOQUINOLINES AND THIAZOLONAPHTHYRIDINES	HEPPNER, PHILIP D.
<u>60581205</u>	Not Issued	020	06/18/2004	ARYL AND ARYLALKYENYL SUBSTITUTED THIAZOLOQUINOLINES AND THIAZOLONAPHTHYRIDINES	HEPPNER, PHILIP D.
<u>60579352</u>	Not Issued	020	06/14/2004	UREA SUBSTITUTED IMIDAZOPYRIDINES, IMIDAZOQUINOLINES, AND IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
<u>60554680</u>	Not Issued	020	03/19/2004	PYRAZOLOPYRIDINES AND ANALOGS THEREOF	HEPPNER, PHILIP D.
<u>60516331</u>	Not Issued	020	10/31/2003	ARYL SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
<u>60508634</u>	Not Issued	159	10/03/2003	ALKOXY SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
<u>60254218</u>	Not Issued	159	12/08/2000	ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
<u>10824232</u>	Not Issued	030	04/14/2004	IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
<u>10772170</u>	Not	030	02/04/2004	AMIDE SUBSTITUTED	HEPPNER,

	Issued			IMIDAZOPYRIDINES	PHILIP D.
<u>10771639</u>	Not Issued	041	02/04/2004	UREA SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
<u>10754056</u>	Not Issued	041	01/07/2004	SULFONAMIDO SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
<u>10696753</u>	Not Issued	061	10/29/2003	ARYL ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
<u>10696478</u>	Not Issued	071	10/29/2003	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
<u>10696476</u>	Not Issued	030	10/29/2003	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
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<u>10681814</u>	Not Issued	071	10/07/2003	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	HEPPNER, PHILIP D.
<u>10681711</u>	Not Issued	071	10/07/2003	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
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<u>10680989</u>	Not Issued	071	10/07/2003	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	HEPPNER, PHILIP D.
<u>10675833</u>	Not Issued	071	09/30/2003	HETEROCYCLIC ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
<u>10456308</u>	<u>6797718</u>	150	06/06/2003	ETHER SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
<u>10406181</u>	<u>6797716</u>	150	04/03/2003	IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
<u>10358017</u>	<u>6720334</u>	150	02/04/2003	UREA SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
<u>10357995</u>	<u>6720333</u>	150	02/04/2003	AMIDE SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
<u>10322262</u>	<u>6696465</u>	150	12/17/2002	SULFONAMIDO SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
<u>10165750</u>	<u>6677348</u>	150	06/07/2002	ARYL ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
<u>10165453</u>	<u>6545017</u>	150	06/07/2002	UREA SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
<u>10165449</u>	<u>6664265</u>	150	06/07/2002	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
<u>10165443</u>	<u>6677347</u>	150	06/07/2002	SULFONAMIDO ETHER SUBSTITUTED	HEPPNER, PHILIP D.

				IMIDAZOQUINOLINES	
<u>10165229</u>	<u>6545016</u>	150	06/07/2002	AMIDE SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
<u>10165002</u>	<u>6525064</u>	150	06/07/2002	SULFONAMIDO SUBSTITUTED IMIDAZOPYRIDINES	HEPPNER, PHILIP D.
<u>10164816</u>	<u>6660735</u>	150	06/07/2002	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	HEPPNER, PHILIP D.
<u>10013202</u>	<u>6670372</u>	150	12/06/2001	ARYL ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
<u>10013060</u>	<u>6656938</u>	150	12/06/2001	UREA SUBSTITUTED IMIDAZOQUINOLINE ETHERS	HEPPNER, PHILIP D.
<u>10012599</u>	<u>6683088</u>	150	12/06/2001	SULFONAMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
<u>10011921</u>	<u>6664260</u>	150	12/06/2001	HETEROCYCLIC ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
<u>10011670</u>	<u>6660747</u>	150	12/06/2001	AMIDO ETHER SUBSTITUTED IMIDAZOQUINOLINES	HEPPNER, PHILIP D.
<u>09706990</u>	<u>6514985</u>	150	11/06/2000	IMIDAZONAPHTHYRIDINES	HEPPNER, PHILIP D.
<u>09210114</u>	<u>6194425</u>	150	12/11/1998	IMIDAZONAPHTHYRIDINES	HEPPNER , PHILIP D.

Inventor Search Completed: No Records to Display.

Search Another:
Inventor

Last Name

Heppner

First Name

Philip

Search

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